

Title (en)

MESSAGE AUTHENTICATION BASED ON A PHYSICAL LOCATION ON A BUS

Title (de)

NACHRICHTENAUTHENTIFIZIERUNG BASIEREND AUF EINEM PHYSISCHEN ORT AUF EINEM BUS

Title (fr)

AUTHENTIFICATION DE MESSAGE BASÉE SUR UN EMPLACEMENT PHYSIQUE SUR UN BUS

Publication

EP 3729739 A4 20210818 (EN)

Application

EP 18892908 A 20181218

Priority

- US 201762610206 P 20171224
- IL 2018051372 W 20181218

Abstract (en)

[origin: WO2019123458A1] A system for authenticating messages transmitted on a bus based on physical location of transmitting units, comprising a reflector adapted to inject a plurality of reflection signals at a first point of a line topology bus, each in response to each of a plurality of messages transmitted by a plurality of bus connected units and a probe adapted to intercept the messages and the reflection signals at a second point of the bus. The probe calculates propagation timing between a reception time of the message and a reception time of an associated reflection signal transmitted in response to the message and determines validity of the message according to a match between the calculated propagation timing and a predefined propagation timings associated with the bus connected units. Wherein the bus connected units are statically connected to the bus between the first point and the second point.

IPC 8 full level

H04L 12/40 (2006.01); **G06F 21/44** (2013.01); **G06F 21/82** (2013.01); **H04L 29/06** (2006.01)

CPC (source: EP US)

G06F 21/44 (2013.01 - EP); **G06F 21/82** (2013.01 - EP); **H04L 9/3242** (2013.01 - US); **H04L 12/40013** (2013.01 - US); **H04L 12/40169** (2013.01 - EP); **H04L 12/4625** (2013.01 - US); **H04L 43/12** (2013.01 - US); **H04L 43/16** (2013.01 - US); **H04L 63/126** (2013.01 - EP); **H04L 69/28** (2013.01 - EP US); **G06F 2221/2111** (2013.01 - EP); **H04L 2012/40215** (2013.01 - EP); **H04L 2012/40273** (2013.01 - EP)

Citation (search report)

- [I] US 2016197944 A1 20160707 - ALLOUCHE YAIR [IL], et al
- [A] US 2004098514 A1 20040520 - SCHUSTER ARMIN [DE]
- [A] US 5434861 A 19950718 - PRITTY DAVID [GB], et al
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Designated contracting state (EPC)

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